

## COMPRESSOR HEAT REGENERATIVE SYSTEM

### ABSTRACT

A regenerative source of heat is provided for the oil used to lubricate a compressor within a heating, cooling or refrigeration system. The regenerative source absorbs heat from the oil when it is circulating through the compressor at a relatively high temperature. The regenerative source gives up heat to the oil following deactivation of the compressor. The source of heat includes a thermal phase change material that is preferably a hydrated salt capable of storing sufficient thermal energy to maintain the oil above any temperatures that would cause damage to the moving parts of the compressor.